

FIG. 1A

FW ON start

h5HT4B : GTAATGGACAAACTTGTATGCTAAATGTGAGTTTCTGAGGAGGGTTTCGGGTCAAGTGAGAGGTGGTGTGCTCACGTTTCTCTCGACGGTTATCCTGATGGCCATCTTGGGGAACTG : 117
 d5HT4B : ---ATGGACAAACTTGTATGCTAAATGTGAGTTTCTGAGGAGGGTTTCGGGTCAAGTGAGAGGTGGTGTGCTCACGTTTCTCTCGACGGTTATCCTGATGGCCATCTTGGGGAACTG : 114

h5HT4B : CTGGTGATGGTGGTGTGCTGGGACAGGCGCTCAGGAAATAAATAACAAATTAATTCATTGTATCTCTTGGCTTTTGGGGATCTGTGGGTTTCGGGTGCTGGTGATGCCCTTTGGT : 234
 d5HT4B : CTGGTGATGGTGGTGTGCTGGGACAGGCGCTCAGGAAATAAATAACAAATTAATTCATTGTATCTCTTGGCTTTTGGGGATCTGTGGGTTTCGGGTGCTGGTGATGCCCTTTGGT : 231

h5HT4B : GCCATTGAGCTGGTTCAGACATCTGGATTATATGGGAGGGTGTGTTGTCTTGTTCGGACATCTCTGGACGTCCTGCTCACAACGGCATCGAATTTTTCACCTGTGTGTCATTTCTCTG : 351
 d5HT4B : GCCATTGAGCTGGTTCAGACATCTGGATTATATGGGAGGGTGTGTTGTCTTGTTCGGACATCTCTGGACGTCCTGCTCACAACGGCATCGAATTTTTCACCTGTGTGTCATTTCTCCCTG : 348

FW AB1

h5HT4B : GATAGGTATTACGCCATCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGGCATCGCATTAATGCTGGAGGGCTGTGGGTGATCCACAGTTTATTTCTTTCTC : 468
 d5HT4B : GACAGGTATTATGCCATCTGCTGCCAGCCTCTGGTCTATAGGAACAAGATGACCCCTCTGGCATCGCGTTAATGCTGGAGGGCTGTGGGTGATCCCATGTTTATCTCTTTCTC : 465

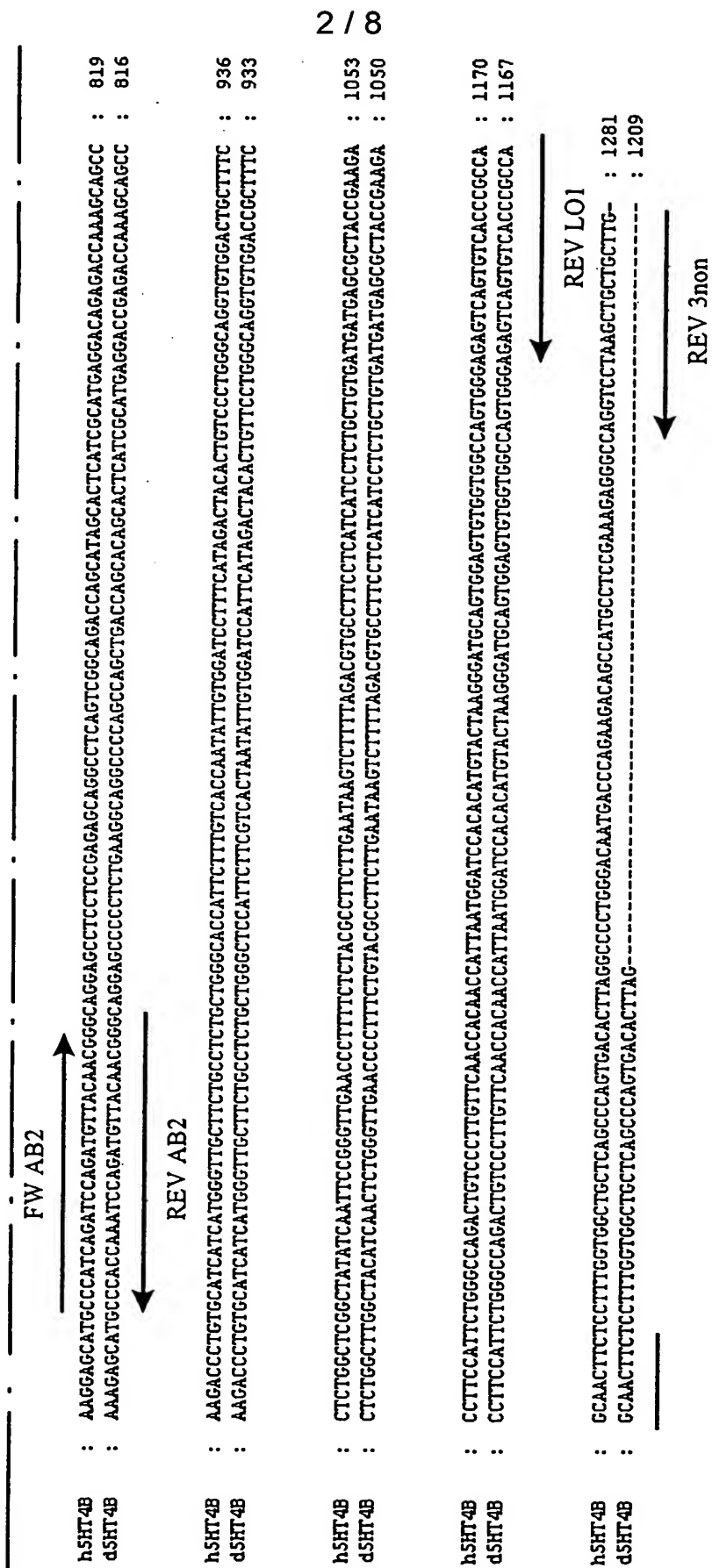
FW B1

h5HT4B : CCTATAATGCAAGGCTGGAATAACATTGGCATAATTGATTGGAAGGAGTCTAAACCAAGGCTGGGCCAGGATTTTCATGCGATAGAAAAGAGGAGTTTCAACCAAGAACTCTAAC : 585
 d5HT4B : CCTATAATGCAAGGCTGGAATAATAATTGGCATAATTGATTGGAAGGAGTCTAAACCAAGGCTGGGCCAGGATTTGCGATGTATAGAAAAGAGGAGTTTCAACCAAGAACTCTAAC : 582

FW AB3

REV B2

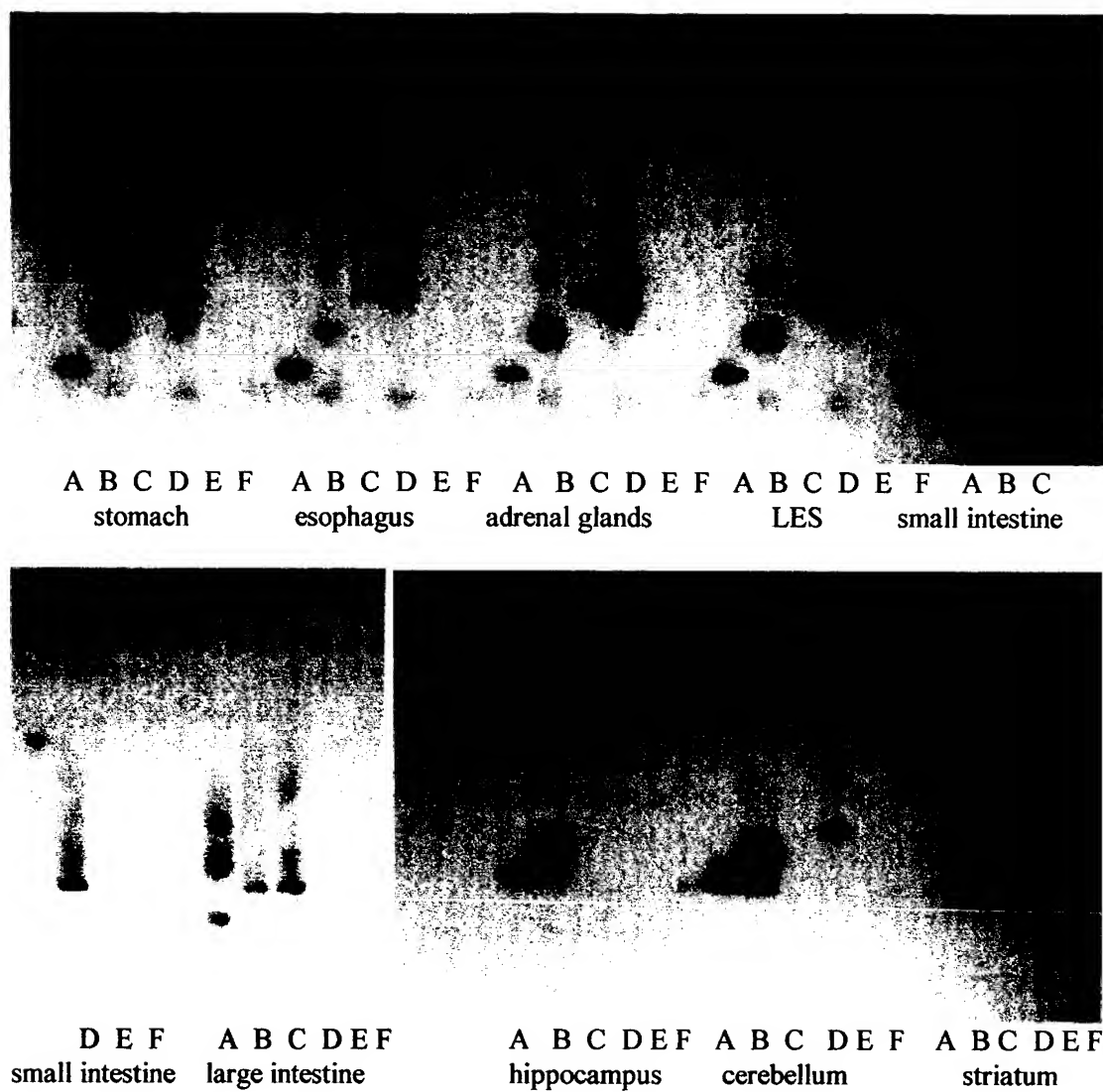
h5HT4B : TCTACGTACTGTGCTTTCATGTGTCACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCTTCTACATCCCAATTTCTCCTCATGGTGTGGCCTATTACCGCATCTATGTACAGCT : 702
 d5HT4B : TCTACGTACTGTATCTTTCATGTGTCACAAGCCCTACGCCATCACCTGCTCTGTGGTGGCTTCTACATCCCAATTTCTCCTCATGGTGTGGCCTATTATCGCATCTACGTACAGCA : 699

FIG. 1A_{CONT'D}

h5HT4B	:	VMDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFFIVSLAEADLLVSVLVMPE	:	77
d5HT4B	:	-MDKLDANVSSEEGFGSVEKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFFIVSLAEADLLVSVLVMPE	:	76
h5HT4B	:	GAIELVQDIWIYGEVECLVRTSLDVLLTTASIFHLCCISLDRYYAICCPPLVYRNKMTPLRIALMLGGCWVPTFIS	:	154
d5HT4B	:	GAIELVQDIWIYGEVECLVRTSLDVLLTTASIFHLCCISLDRYYAICCPPLVYRNKMTPLRIALMLGGCWIIIPMFIS	:	153
h5HT4B	:	FLPIMQGMNNGIIDLERSLNQGLQDDEHAIEKRKENQNSNSTYCVFMVNKPYAITCSVVAFYIPFLLMVLAYYRIY	:	231
d5HT4B	:	FLPIMQGMNNGIIDLERSISKPRLGQDLHVIEKRKENQNSNSTYCI FFMVNKPYAITCSVVAFYIPFLLMVLAYYRIY	:	230
h5HT4B	:	VTAKEHAHQIQMLQORAGASSESRPQADQHSHTHRMRTETKAAKTLICIIMGCFCLCWAPFFVTNIIVDPFIDYTVPGQV	:	308
d5HT4B	:	VTAKEHAHQIQMLQORAGAPSEGRPPQADQHSHTHRMRTETKAAKTLICIIMGCFCLCWAPFFVTNIIVDPFIDYTVPGQV	:	307
h5HT4B	:	WTAFLMWLGYNGLNPFLYAFLNKSERRAFLIILCCDDERYRRRPSILGQTVPCSTTTINGSTHVLRDAVECGGQWES	:	385
d5HT4B	:	WTAFLMWLGYNGLNPFLYAFLNKSERRAFLIILCCDDERYRRRPSILGQTVPCSTTTINGSTHVLRDAVECGGQWES	:	384
h5HT4B	:	QCHPPATSPLVAAQPSDTAPGMTQKTAMPKQGVLSCLL	:	426
d5HT4B	:	QCHPPATSPLVAAQPSDT-----	:	402

FIG. 1B

Fig. 2



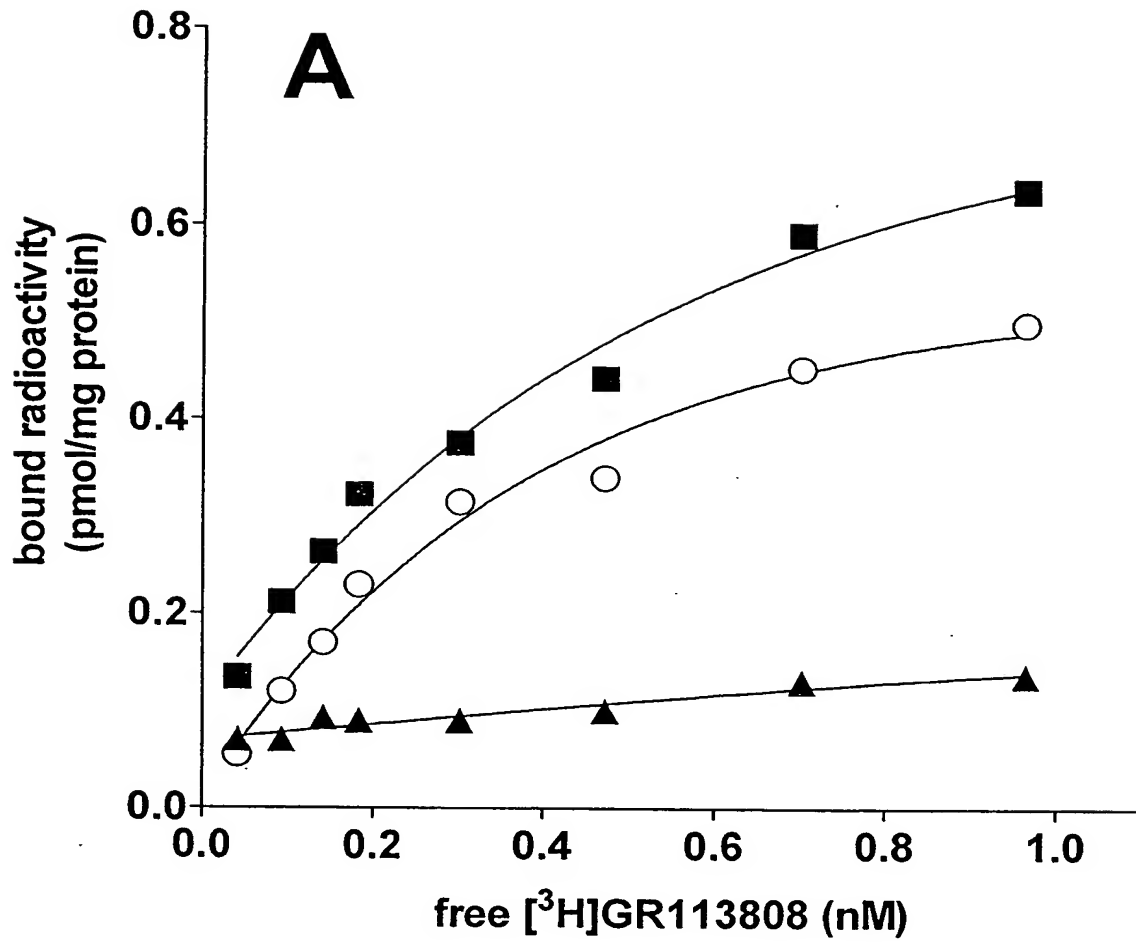


FIG. 3

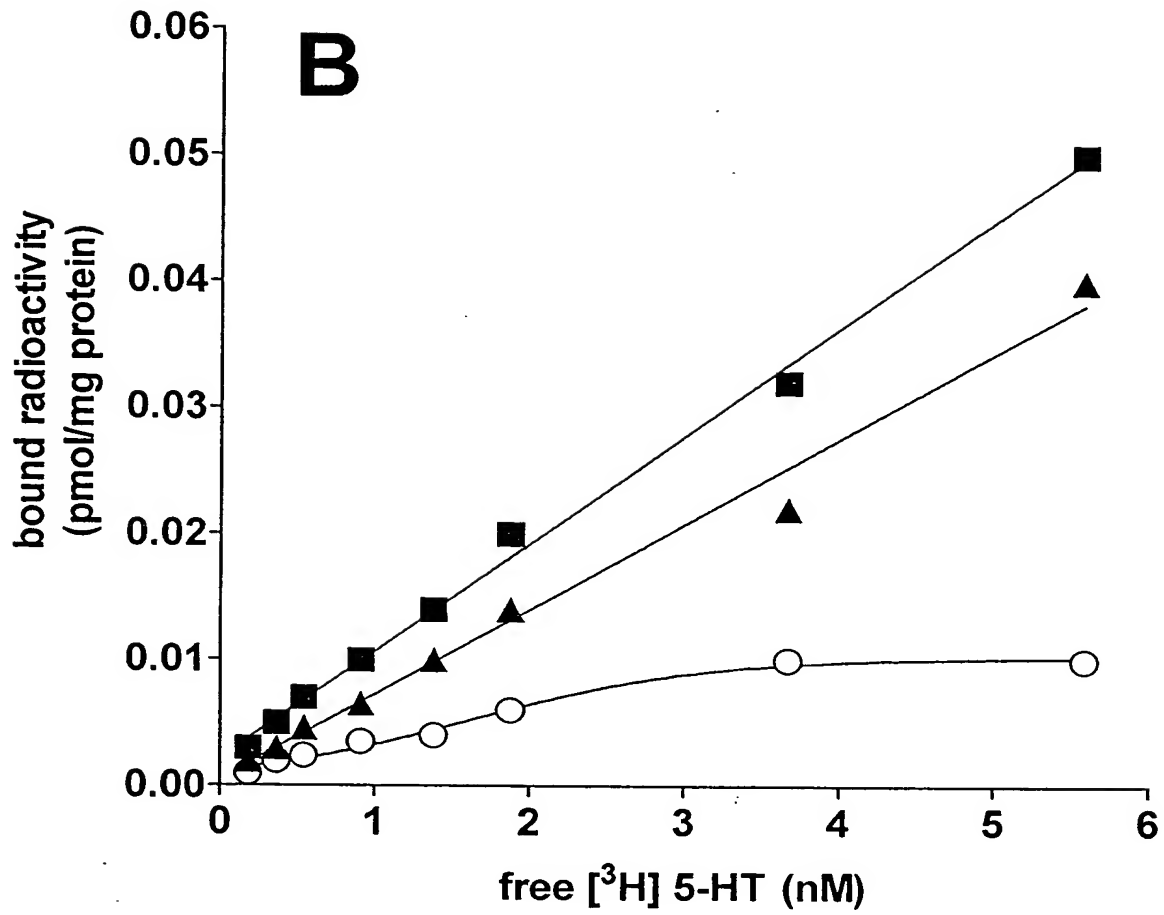


FIG. 4

**Stimulation of AC through human
5-HT₄h receptor in COS-7 cells**

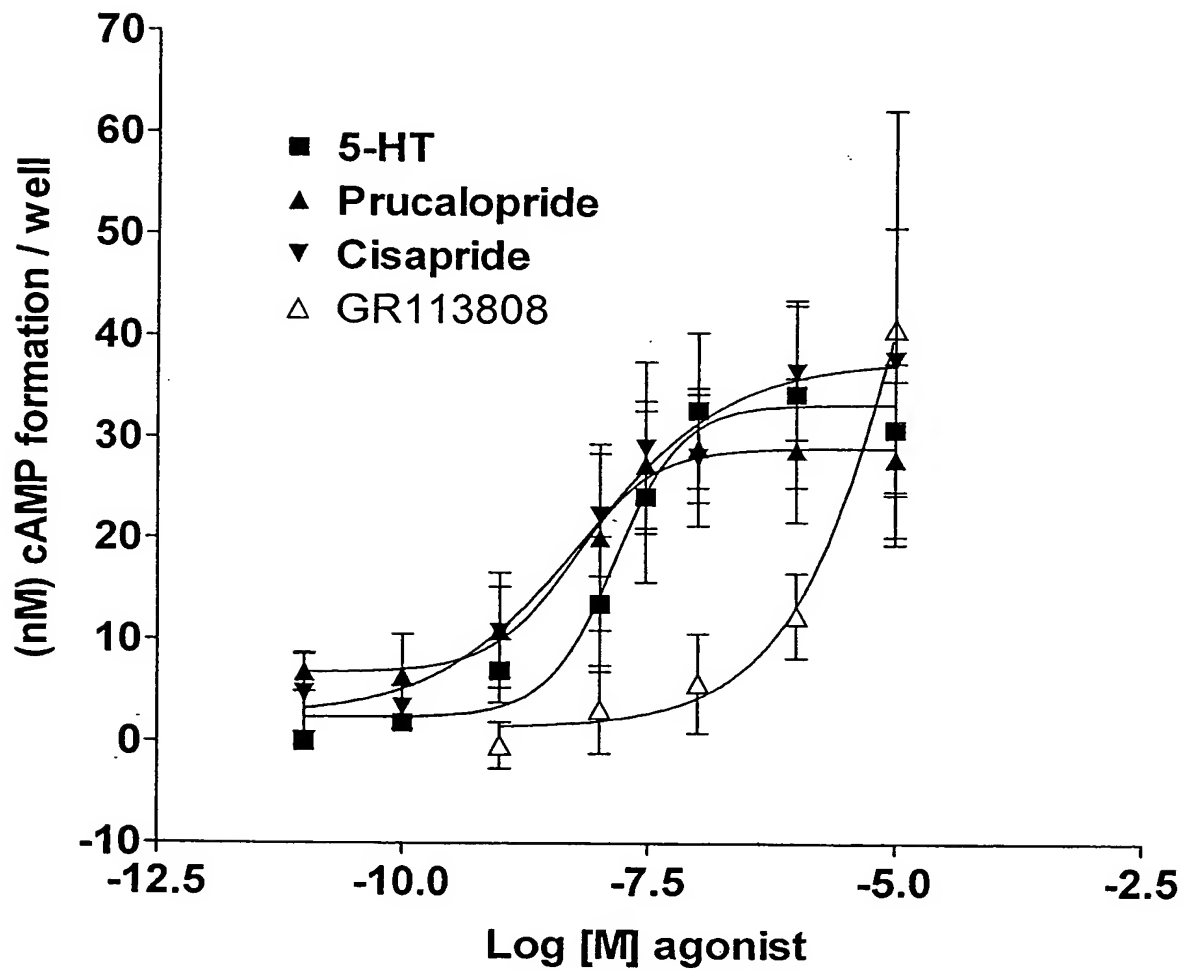


FIG. 5

Binding profile of the human 5-HT_{4(h)} COS-7
cells

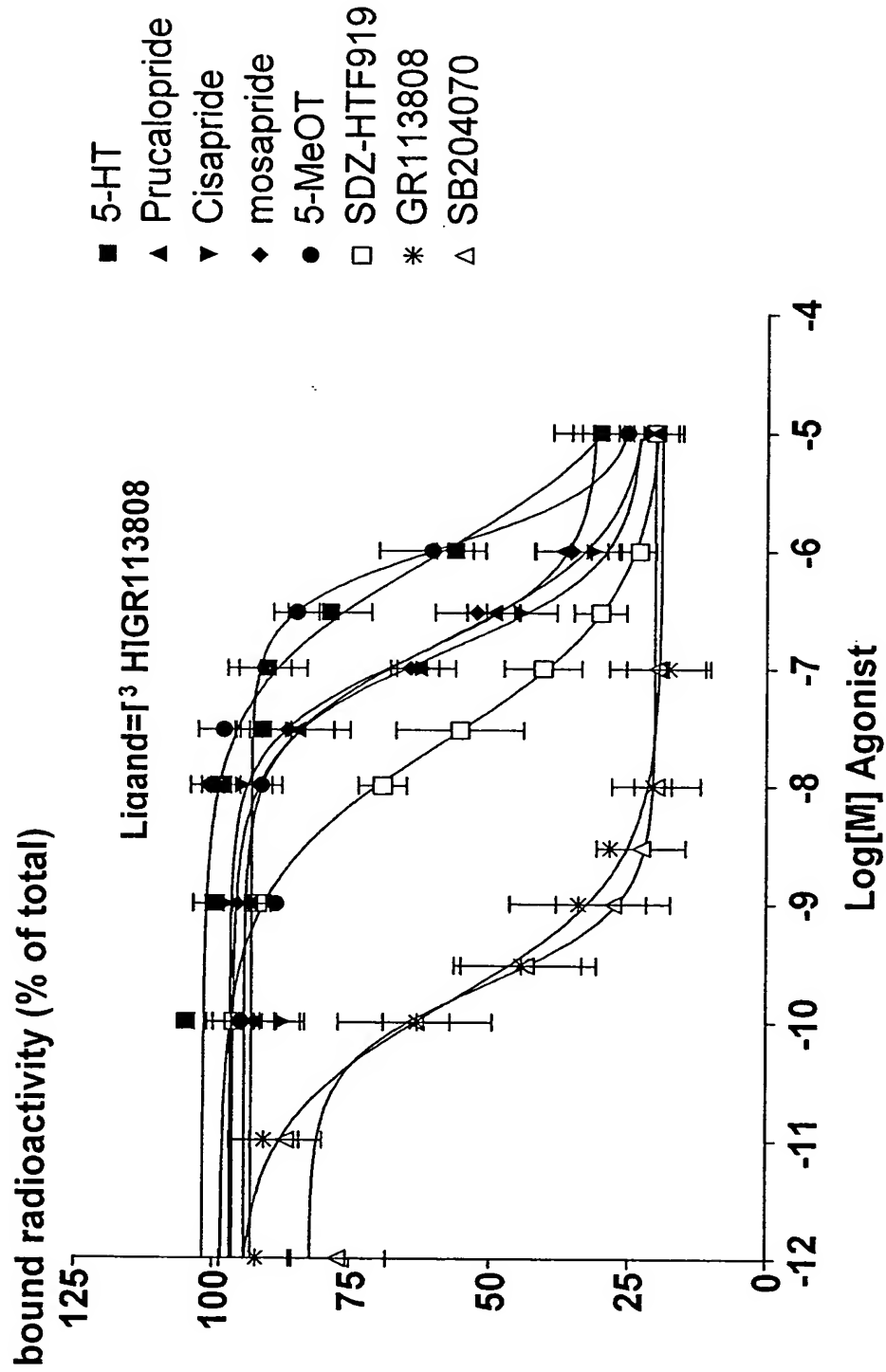


FIG. 6